

In the Claims:

Please cancel claims 30, 46 and 50 without prejudice.

Please add claims 53-58.

Please amend the claims to read as follows:

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1-27. (Canceled)

28. (Currently Amended) A process for producing a human-tropic PERV-free animal swine from parental animals swine at least one of which is human-tropic PERV-positive, comprising:

(a) mating a male and a female animal swine of the same species wherein at least one of said animals swine is positive for a human-tropic PERV-locus whereby said mating produces offspring; and

(b) screening said offspring for the presence of said human-tropic PERV and selecting offspring free of human-tropic PERV,

thereby producing a human-tropic PERV-free animal swine.

29. (Currently Amended) A process for producing a human-tropic PERV-free animal swine from parental animals swine at least one of which is human-tropic PERV-positive, comprising:

(a) mating a male and a female animal swine of the same species wherein at least one of said animals swine is positive for a human-tropic PERV-locus and thereby producing offspring;

(b) mating a male animal swine produced in (a) with a female animal swine produced in (a) wherein at least one of said male and female is positive for a human-

tropic PERV-locus and wherein if both are positive for an PERV-locus then said male and female are not each positive for the same human-tropic PERV-locus; and

(c) screening said offspring for the presence of said human-tropic PERV and selecting those offspring that are human-tropic PERV-free thereby producing a human-tropic PERV-free animal swine.

*C1*  
*Conf*  
30. (Canceled)

31. (Currently Amended) The process of claim 30 29 wherein said human-tropic PERV-free swine is a miniature swine.

32. (Once Amended) The process of claim 31 wherein said miniature swine is of the D/D haplotype.

33. (Canceled)

34. (Currently Amended) The process of claim 29 wherein said human-tropic PERV loci are determined using oligonucleotide probes.

35. (Currently Amended) The process of claim 30 29 wherein both male and female swine mated in step (a) are human-tropic PERV-positive and wherein the offspring of (a) that are mated in (b) are each human-tropic PERV-positive animals.

36. (Currently Amended) The process of claim 35 29 wherein said human-tropic PERV-free swine are is a miniature swine wherein both male and female swine mated in step (a) are human-tropic PERV-positive and wherein the offspring of (a) that are mated in (b) are each human-tropic PERV-positive animals.

37. (Previously Amended) The process of claim 36 wherein said miniature swine is of the D/D haplotype.

38. (Previously Amended) The process of claim 35 wherein the swine mated in (a) are each positive for all but one human-tropic PERV-locus, said male and female so mated are each negative for a different PERV-locus, and the male and female of each mated pair of offspring mated in (b) are each, positive, if at all, for a set of human-tropic PERV-loci with no human-tropic PERV loci in common.

39. (Currently Amended) The process of claim 38 wherein step (a) comprises mating swine pigs carrying a first set of PERVs and swine pigs carrying a second set of PERVs wherein each of said first and second sets of PERVs comprises at least one PERV not present in the other set, to produce offspring and step (b) comprises mating offspring of (a) whereby such mating is between a first animal that carries PERVs present in both of said first and second sets of PERVs but no PERV not present in both of said first and second sets of PERVs and a second animal that carries the PERVs present in said first and second sets of PERVs but not present in both of said first and second sets of PERVs.  
*C1  
C2*

40. (Currently Amended) The process of claim 39 wherein said swine pigs in step (a) carrying said first set of PERVs are male swine pigs and said swine pigs in step (a) carrying said second set of PERVs are female swine pigs.

41. (Currently Amended) The process of claim 39 wherein said swine pigs in step (b) carrying PERV 3, 4 are male swine pigs and said swine pigs in step (b) carrying PERV 1, 2 are female swine pigs ~~first animal is female and said second animal is male.~~

42. (Canceled)

43. (Currently Amended) The process of claim 42 41 wherein said swine produced by the said process is a miniature swine.

44. (Currently Amended) The process of claim 43 wherein said miniature swine is are of the D/D haplotype.

45. (Previously Added) An swine animal produced by the process of claim 28 wherein said swine is an inbred swine.

46. (Canceled)

*C1*  
*Art*  
47. (Currently Amended) The swine animal of claim 45 46 wherein said swine is a miniature swine.

48. (Currently Amended) The miniature swine animal of claim 47 wherein said miniature swine is of the D/D haplotype.

49. (Currently Amended) An swine animal produced by the process of claim 29 wherein the said swine is an inbred swine.

50. (Canceled)

51. (Currently Amended) The swine animal of claim 49 50 wherein said swine is a miniature swine.

52. (Previously Added) The miniature swine animal of claim 51 50 wherein said miniature swine is of the D/D haplotype.

53. (New) A transplant comprising an organ, tissue or cells from the swine produced by the process of claim 28 wherein the said swine is an inbred swine.

54. (New) A transplant comprising an organ, tissue or cells from the swine of claim 53 wherein the said swine is a miniature swine.

55. (New) A transplant comprising an organ, tissue or cells from the miniature swine of claim 54 wherein the said miniature swine is of the D/D haplotype.

56. (New) A transplant comprising an organ, tissue or cells from the swine produced by the process of claim 29 wherein the said swine is an inbred swine.

57. (New) A transplant comprising an organ, tissue or cells from the swine of claim 56 wherein the said swine is a miniature swine.

58. (New) A transplant comprising an organ, tissue or cells from the miniature swine of claim 57 wherein the said miniature swine is of the D/D haplotype.